



SEQUENCE LISTING

<110> KYOWA HAKKO KOGYO CO., LTD.

<120> GENOMICALLY MODIFIED CELL NEUTRALIZED TO SERUM-FREE SYSTEM

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<141> 2006-04-10

<150> PCT/JP2004/015315

<151> 2004-10-08

<150> JP2003-350166

<151> 2003-10-09

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<170> PatentIn Ver. 2.1

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|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |  |  |  |  |
| Thr | Val | Phe | Arg | Pro | Val | Ser | Glu | Thr | Cys | Thr | Asp | Arg | Ser | Gly | Leu |  |  |  |  |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |  |  |  |  |
| Ser | Thr | Gly | His | Trp | Ser | Gly | Glu | Val | Lys | Asp | Lys | Asn | Val | Gln | Val |  |  |  |  |
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|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |  |  |  |  |
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|     |     |     | 340 |     |     |     |     | 345 |     |     |     |     |     | 350 |     |  |  |  |  |
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| Lys | Val | Gly | Thr | Glu | Ala | Ala | Phe | His | Pro | Ile | Glu | Glu | Tyr | Met | Val |  |  |  |  |
|     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |  |  |  |  |
| His | Val | Glu | Glu | His | Phe | Gln | Leu | Leu | Glu | Arg | Arg | Met | Lys | Val | Asp |  |  |  |  |
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| Ala | Lys | Thr | Lys | Tyr | Ser | Asn | Tyr | Glu | Phe | Ile | Ser | Asp | Asn | Ser | Ile |  |  |  |  |
|     |     |     | 420 |     |     |     |     | 425 |     |     |     |     | 430 |     |     |  |  |  |  |
| Ser | Trp | Ser | Ala | Gly | Leu | His | Asn | Arg | Tyr | Thr | Glu | Asn | Ser | Leu | Arg |  |  |  |  |
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| Gly | Val | Ile | Leu | Asp | Ile | His | Phe | Leu | Ser | Gln | Ala | Asp | Phe | Leu | Val |  |  |  |  |
|     | 450 |     |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     |  |  |  |  |
| Cys | Thr | Phe | Ser | Ser | Gln | Val | Cys | Arg | Val | Ala | Tyr | Glu | Ile | Met | Gln |  |  |  |  |



|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 465 |     | 470 |     | 475 |     | 480 |     |     |     |     |     |     |     |     |     |
| Thr | Leu | His | Pro | Asp | Ala | Ser | Ala | Asn | Phe | His | Ser | Leu | Asp | Asp | Ile |
|     |     |     |     | 485 |     |     |     |     | 490 |     |     |     |     | 495 |     |
| Tyr | Tyr | Phe | Gly | Gly | Gln | Asn | Ala | His | Asn | Gln | Ile | Ala | Val | Tyr | Pro |
|     |     |     | 500 |     |     |     |     | 505 |     |     |     |     | 510 |     |     |
| His | Gln | Pro | Arg | Thr | Lys | Glu | Glu | Ile | Pro | Met | Glu | Pro | Gly | Asp | Ile |
|     |     | 515 |     |     |     |     | 520 |     |     |     |     | 525 |     |     |     |
| Ile | Gly | Val | Ala | Gly | Asn | His | Trp | Asn | Gly | Tyr | Ser | Lys | Gly | Val | Asn |
|     | 530 |     |     |     |     | 535 |     |     |     |     | 540 |     |     |     |     |
| Arg | Lys | Leu | Gly | Lys | Thr | Gly | Leu | Tyr | Pro | Ser | Tyr | Lys | Val | Arg | Glu |
| 545 |     |     |     |     | 550 |     |     |     |     | 555 |     |     |     |     | 560 |
| Lys | Ile | Glu | Thr | Val | Lys | Tyr | Pro | Thr | Tyr | Pro | Glu | Ala | Glu | Lys |     |
|     |     |     |     | 565 |     |     |     |     | 570 |     |     |     |     | 575 |     |

<210> 6  
 <211> 575  
 <212> PRT  
 <213> Mus musculus

|   |
|---|
| <400> 6   |
| Met Arg Ala Trp Thr Gly Ser Trp Arg Trp Ile Met Leu Ile Leu Phe |
| 1 5 10 15   |
| Ala Trp Gly Thr Leu Leu Phe Tyr Ile Gly Gly His Leu Val Arg Asp |
| 20 25 30  |
| Asn Asp His Pro Asp His Ser Ser Arg Glu Leu Ser Lys Ile Leu Ala |
| 35 40 45  |
| Lys Leu Glu Arg Leu Lys Gln Gln Asn Glu Asp Leu Arg Arg Met Ala |
| 50 55 60  |
| Glu Ser Leu Arg Ile Pro Glu Gly Pro Ile Asp Gln Gly Thr Ala Thr |
| 65 70 75 80   |
| Gly Arg Val Arg Val Leu Glu Glu Gln Leu Val Lys Ala Lys Glu Gln |
| 85 90 95  |
| Ile Glu Asn Tyr Lys Lys Gln Ala Arg Asn Gly Leu Gly Lys Asp His |
| 100 105 110   |
| Glu Ile Leu Arg Arg Arg Ile Glu Asn Gly Ala Lys Glu Leu Trp Phe |
| 115 120 125   |
| Phe Leu Gln Ser Glu Leu Lys Lys Leu Lys His Leu Glu Gly Asn Glu |
| 130 135 140   |
| Leu Gln Arg His Ala Asp Glu Ile Leu Leu Asp Leu Gly His His Glu |
| 145 150 155 160   |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Arg | Ser | Ile | Met | Thr | Asp | Leu | Tyr | Tyr | Leu | Ser | Gln | Thr | Asp | Gly | Ala |  |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |  |
| Gly | Asp | Trp | Arg | Glu | Lys | Glu | Ala | Lys | Asp | Leu | Thr | Glu | Leu | Val | Gln |  |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |  |
| Arg | Arg | Ile | Thr | Tyr | Leu | Gln | Asn | Pro | Lys | Asp | Cys | Ser | Lys | Ala | Arg |  |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |  |
| Lys | Leu | Val | Cys | Asn | Ile | Asn | Lys | Gly | Cys | Gly | Tyr | Gly | Cys | Gln | Leu |  |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |  |
| His | His | Val | Val | Tyr | Cys | Phe | Met | Ile | Ala | Tyr | Gly | Thr | Gln | Arg | Thr |  |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |  |
| Leu | Ile | Leu | Glu | Ser | Gln | Asn | Trp | Arg | Tyr | Ala | Thr | Gly | Gly | Trp | Glu |  |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |  |
| Thr | Val | Phe | Arg | Pro | Val | Ser | Glu | Thr | Cys | Thr | Asp | Arg | Ser | Gly | Leu |  |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |  |
| Ser | Thr | Gly | His | Trp | Ser | Gly | Glu | Val | Asn | Asp | Lys | Asn | Ile | Gln | Val |  |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |  |
| Val | Glu | Leu | Pro | Ile | Val | Asp | Ser | Leu | His | Pro | Arg | Pro | Pro | Tyr | Leu |  |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |  |
| Pro | Leu | Ala | Val | Pro | Glu | Asp | Leu | Ala | Asp | Arg | Leu | Leu | Arg | Val | His |  |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |  |
| Gly | Asp | Pro | Ala | Val | Trp | Trp | Val | Ser | Gln | Phe | Val | Lys | Tyr | Leu | Ile |  |
|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |  |
| Arg | Pro | Gln | Pro | Trp | Leu | Glu | Lys | Glu | Ile | Glu | Glu | Ala | Thr | Lys | Lys |  |
|     |     |     | 340 |     |     |     |     | 345 |     |     |     |     |     | 350 |     |  |
| Leu | Gly | Phe | Lys | His | Pro | Val | Ile | Gly | Val | His | Val | Arg | Arg | Thr | Asp |  |
|     |     | 355 |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |  |
| Lys | Val | Gly | Thr | Glu | Ala | Ala | Phe | His | Pro | Ile | Glu | Glu | Tyr | Met | Val |  |
|     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |  |
| His | Val | Glu | Glu | His | Phe | Gln | Leu | Leu | Ala | Arg | Arg | Met | Gln | Val | Asp |  |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |  |
| Lys | Lys | Arg | Val | Tyr | Leu | Ala | Thr | Asp | Asp | Pro | Thr | Leu | Leu | Lys | Glu |  |
|     |     |     |     | 405 |     |     |     |     | 410 |     |     |     |     | 415 |     |  |
| Ala | Lys | Thr | Lys | Tyr | Ser | Asn | Tyr | Glu | Phe | Ile | Ser | Asp | Asn | Ser | Ile |  |
|     |     |     | 420 |     |     |     |     | 425 |     |     |     |     | 430 |     |     |  |
| Ser | Trp | Ser | Ala | Gly | Leu | His | Asn | Arg | Tyr | Thr | Glu | Asn | Ser | Leu | Arg |  |
|     |     | 435 |     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |  |
| Gly | Val | Ile | Leu | Asp | Ile | His | Phe | Leu | Ser | Gln | Ala | Asp | Phe | Leu | Val |  |
|     | 450 |     |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     |  |

Cys Thr Phe Ser Ser Gln Val Cys Arg Val Ala Tyr Glu Ile Met Gln  
465 470 475 480

Thr Leu His Pro Asp Ala Ser Ala Asn Phe His Ser Leu Asp Asp Ile  
485 490 495

Tyr Tyr Phe Gly Gly Gln Asn Ala His Asn Gln Ile Ala Val Tyr Pro  
500 505 510

His Lys Pro Arg Thr Glu Glu Glu Ile Pro Met Glu Pro Gly Asp Ile  
515 520 525

Ile Gly Val Ala Gly Asn His Trp Asp Gly Tyr Ser Lys Gly Ile Asn  
530 535 540

Arg Lys Leu Gly Lys Thr Gly Leu Tyr Pro Ser Tyr Lys Val Arg Glu  
545 550 555 560

Lys Ile Glu Thr Val Lys Tyr Pro Thr Tyr Pro Glu Ala Glu Lys  
565 570 575

<210> 7

<211> 446

<212> PRT

<213> Homo sapiens

<400> 7

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Ser Ile Met Thr Asp Leu Tyr Tyr Leu Ser Gln Thr Asp Gly Ala Gly  
35 40 45

Asp Trp Arg Glu Lys Glu Ala Lys Asp Leu Thr Glu Leu Val Gln Arg  
50 55 60

Arg Ile Thr Tyr Leu Gln Asn Pro Lys Asp Cys Ser Lys Ala Lys Lys  
165 70 75 80

Leu Val Cys Asn Ile Asn Lys Gly Cys Gly Tyr Gly Cys Gln Leu His  
85 90 95

His Val Val Tyr Cys Phe Met Ile Ala Tyr Gly Thr Gln Arg Thr Leu  
100 105 110

Ile Leu Glu Ser Gln Asn Trp Arg Tyr Ala Thr Gly Gly Trp Glu Thr  
115 120 125

Val Phe Arg Pro Val Ser Glu Thr Cys Thr Asp Arg Ser Gly Ile Ser  
130 135 140

Thr Gly His Trp Ser Gly Glu Val Lys Asp Lys Asn Val Gln Val Val

|   |     |     |  |     |  |     |
|---|-----|-----|--|-----|--|-----|
| 145   |     | 150 |  | 155 |  | 160 |
| Glu Leu Pro Ile Val Asp Ser Leu His Pro Arg Pro Pro Tyr Leu Pro |     |     |  |     |  |     |
|   | 165 |     |  | 170 |  | 175 |
| Leu Ala Val Pro Glu Asp Leu Ala Asp Arg Leu Val Arg Val His Gly |     |     |  |     |  |     |
|   | 180 |     |  | 185 |  | 190 |
| Asp Pro Ala Val Trp Trp Val Ser Gln Phe Val Lys Tyr Leu Ile Arg |     |     |  |     |  |     |
|   | 195 |     |  | 200 |  | 205 |
| Pro Gln Pro Trp Leu Glu Lys Glu Ile Glu Glu Ala Thr Lys Lys Leu |     |     |  |     |  |     |
|   | 210 |     |  | 215 |  | 220 |
| Gly Phe Lys His Pro Val Ile Gly Val His Val Arg Arg Thr Asp Lys |     |     |  |     |  |     |
| 225   |     | 230 |  | 235 |  | 240 |
| Val Gly Thr Glu Ala Ala Phe His Pro Ile Glu Glu Tyr Met Val His |     |     |  |     |  |     |
|   | 245 |     |  | 250 |  | 255 |
| Val Glu Glu His Phe Gln Leu Leu Ala Arg Arg Met Gln Val Asp Lys |     |     |  |     |  |     |
|   | 260 |     |  | 265 |  | 270 |
| Lys Arg Val Tyr Leu Ala Thr Asp Asp Pro Ser Leu Leu Lys Glu Ala |     |     |  |     |  |     |
|   | 275 |     |  | 280 |  | 285 |
| Lys Thr Lys Tyr Pro Asn Tyr Glu Phe Ile Ser Asp Asn Ser Ile Ser |     |     |  |     |  |     |
|   | 290 |     |  | 295 |  | 300 |
| Trp Ser Ala Gly Leu His Asn Arg Tyr Thr Glu Asn Ser Leu Arg Gly |     |     |  |     |  |     |
| 305   |     | 310 |  | 315 |  | 320 |
| Val Ile Leu Asp Ile His Phe Leu Ser Gln Ala Asp Phe Leu Val Cys |     |     |  |     |  |     |
|   | 325 |     |  | 330 |  | 335 |
| Thr Phe Ser Ser Gln Val Cys Arg Val Ala Tyr Glu Ile Met Gln Thr |     |     |  |     |  |     |
|   | 340 |     |  | 345 |  | 350 |
| Leu His Pro Asp Ala Ser Ala Asn Phe His Ser Leu Asp Asp Ile Tyr |     |     |  |     |  |     |
|   | 355 |     |  | 360 |  | 365 |
| Tyr Phe Gly Gly Gln Asn Ala His Asn Gln Ile Ala Ile Tyr Ala His |     |     |  |     |  |     |
|   | 370 |     |  | 375 |  | 380 |
| Gln Pro Arg Thr Ala Asp Glu Ile Pro Met Glu Pro Gly Asp Ile Ile |     |     |  |     |  |     |
| 385   |     | 390 |  | 395 |  | 400 |
| Gly Val Ala Gly Asn His Trp Asp Gly Tyr Ser Lys Gly Val Asn Arg |     |     |  |     |  |     |
|   | 405 |     |  | 410 |  | 415 |
| Lys Leu Gly Arg Thr Gly Leu Tyr Pro Ser Tyr Lys Val Arg Glu Lys |     |     |  |     |  |     |
|   | 420 |     |  | 425 |  | 430 |
| Ile Glu Thr Val Lys Tyr Pro Thr Tyr Pro Glu Ala Glu Lys         |     |     |  |     |  |     |
|   | 435 |     |  | 440 |  | 445 |

<210> 8

<211> 575

<212> PRT

<213> Sus scrofa

<400> 8

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Arg | Pro | Trp | Thr | Gly | Ser | Trp | Arg | Trp | Ile | Met | Leu | Ile | Leu | Phe |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Ala | Trp | Gly | Thr | Leu | Leu | Phe | Tyr | Ile | Gly | Gly | His | Leu | Val | Arg | Asp |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Asn | Asp | His | Ser | Asp | His | Ser | Ser | Arg | Glu | Leu | Ser | Lys | Ile | Leu | Ala |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Lys | Leu | Glu | Arg | Leu | Lys | Gln | Gln | Asn | Glu | Asp | Leu | Arg | Arg | Met | Ala |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Glu | Ser | Leu | Arg | Ile | Pro | Glu | Gly | Pro | Ile | Asp | Gln | Gly | Pro | Ala | Ser |
| 165 |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Gly | Arg | Val | Arg | Ala | Leu | Glu | Glu | Gln | Phe | Met | Lys | Ala | Lys | Glu | Gln |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Ile | Glu | Asn | Tyr | Lys | Lys | Gln | Thr | Lys | Asn | Gly | Pro | Gly | Lys | Asp | His |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Glu | Ile | Leu | Arg | Arg | Arg | Ile | Glu | Asn | Gly | Ala | Lys | Glu | Leu | Trp | Phe |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Phe | Leu | Gln | Ser | Glu | Leu | Lys | Lys | Leu | Lys | Asn | Leu | Glu | Gly | Asn | Glu |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Leu | Gln | Arg | His | Ala | Asp | Glu | Phe | Leu | Ser | Asp | Leu | Gly | His | His | Glu |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Arg | Ser | Ile | Met | Thr | Asp | Leu | Tyr | Tyr | Leu | Ser | Gln | Thr | Asp | Gly | Ala |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Gly | Asp | Trp | Arg | Glu | Lys | Glu | Ala | Lys | Asp | Leu | Thr | Glu | Leu | Val | Gln |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Arg | Arg | Ile | Thr | Tyr | Leu | Gln | Asn | Pro | Lys | Asp | Cys | Ser | Lys | Ala | Lys |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Lys | Leu | Val | Cys | Asn | Ile | Asn | Lys | Gly | Cys | Gly | Tyr | Gly | Cys | Gln | Leu |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| His | His | Val | Val | Tyr | Cys | Phe | Met | Ile | Ala | Tyr | Gly | Thr | Gln | Arg | Thr |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Leu | Ala | Leu | Glu | Ser | His | Asn | Trp | Arg | Tyr | Ala | Thr | Gly | Gly | Trp | Glu |
|     |     |     | 245 |     |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Thr | Val | Phe | Arg | Pro | Val | Ser | Glu | Thr | Cys | Thr | Asp | Arg | Ser | Gly | Ser |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| Ser | Thr | Gly | His | Trp | Ser | Gly | Glu | Val | Lys | Asp | Lys | Asn | Val | Gln | Val |  |  |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |  |  |
| Val | Glu | Leu | Pro | Ile | Val | Asp | Ser | Val | His | Pro | Arg | Pro | Pro | Tyr | Leu |  |  |
|     |     | 290 |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |  |  |
| Pro | Leu | Ala | Val | Pro | Glu | Asp | Leu | Ala | Asp | Arg | Leu | Val | Arg | Val | His |  |  |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |  |  |
| Gly | Asp | Pro | Ala | Val | Trp | Trp | Val | Ser | Gln | Phe | Val | Lys | Tyr | Leu | Ile |  |  |
|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |  |  |
| Arg | Pro | Gln | Pro | Trp | Leu | Glu | Lys | Glu | Ile | Glu | Glu | Ala | Thr | Lys | Lys |  |  |
|     |     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |  |  |
| Leu | Gly | Phe | Lys | His | Pro | Val | Ile | Gly | Val | His | Val | Arg | Arg | Thr | Asp |  |  |
|     |     | 355 |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |  |  |
| Lys | Val | Gly | Ala | Glu | Ala | Ala | Phe | His | Pro | Ile | Glu | Glu | Tyr | Thr | Val |  |  |
|     |     | 370 |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |  |  |
| His | Val | Glu | Glu | Asp | Phe | Gln | Leu | Leu | Ala | Arg | Arg | Met | Gln | Val | Asp |  |  |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |  |  |
| Lys | Lys | Arg | Val | Tyr | Leu | Ala | Thr | Asp | Asp | Pro | Ala | Leu | Leu | Lys | Glu |  |  |
|     |     |     | 405 |     |     |     |     |     | 410 |     |     |     |     | 415 |     |  |  |
| Ala | Lys | Thr | Lys | Tyr | Pro | Ser | Tyr | Glu | Phe | Ile | Ser | Asp | Asn | Ser | Ile |  |  |
|     |     |     | 420 |     |     |     |     | 425 |     |     |     |     | 430 |     |     |  |  |
| Ser | Trp | Ser | Ala | Gly | Leu | His | Asn | Arg | Tyr | Thr | Glu | Asn | Ser | Leu | Arg |  |  |
|     |     | 435 |     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |  |  |
| Gly | Val | Ile | Leu | Asp | Ile | His | Phe | Leu | Ser | Gln | Ala | Asp | Phe | Leu | Val |  |  |
|     |     | 450 |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     |  |  |
| Cys | Thr | Phe | Ser | Ser | Gln | Val | Cys | Arg | Val | Ala | Tyr | Glu | Ile | Met | Gln |  |  |
| 465 |     |     |     |     | 470 |     |     |     |     | 475 |     |     |     | 480 |     |  |  |
| Ala | Leu | His | Pro | Asp | Ala | Ser | Ala | Asn | Phe | Arg | Ser | Leu | Asp | Asp | Ile |  |  |
|     |     |     |     | 485 |     |     |     |     | 490 |     |     |     |     | 495 |     |  |  |
| Tyr | Tyr | Phe | Gly | Gly | Pro | Asn | Ala | His | Asn | Gln | Ile | Ala | Ile | Tyr | Pro |  |  |
|     |     |     | 500 |     |     |     |     | 505 |     |     |     |     | 510 |     |     |  |  |
| His | Gln | Pro | Arg | Thr | Glu | Gly | Glu | Ile | Pro | Met | Glu | Pro | Gly | Asp | Ile |  |  |
|     |     | 515 |     |     |     |     | 520 |     |     |     |     | 525 |     |     |     |  |  |
| Ile | Gly | Val | Ala | Gly | Asn | His | Trp | Asp | Gly | Tyr | Pro | Lys | Gly | Val | Asn |  |  |
|     |     | 530 |     |     |     | 535 |     |     |     |     | 540 |     |     |     |     |  |  |
| Arg | Lys | Leu | Gly | Arg | Thr | Gly | Leu | Tyr | Pro | Ser | Tyr | Lys | Val | Arg | Glu |  |  |
| 545 |     |     |     |     | 550 |     |     |     |     | 555 |     |     |     |     | 560 |  |  |
| Lys | Ile | Glu | Thr | Val | Lys | Tyr | Pro | Thr | Tyr | Pro | Glu | Ala | Asp | Lys |     |  |  |
|     |     |     |     | 565 |     |     |     |     | 570 |     |     |     |     | 575 |     |  |  |

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<212> DNA  
<213> *Cricetulus griseus*

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atttacatta taattgtaag taaaaatttt cagcctat ttgtatacat ttttgcgtaa 180  
attattcttt tttgaaagt ttgttgcca taatagtcta gggaaacata aagttataat 240  
ttttgtctat gtatttgc atatatctat ttaatctcct aatgtccagg aaataaatag 300  
ggtatgtaat agcttcaaca tgtggtatga tagaattttt cagtgtctata taagttgtta 360  
cagcaaagtg ttattaattc atatgtccat atttcaattt tttatgaatt attaaattga 420  
atccttaagc tgccagaact agaattttat tttaatcagg aagcccaaaa tctgttcatt 480  
ctttctatat atgtggaaag gtaggcctca ctaactgatt cttcacctgt tttagaacat 540  
ggtccaagaa tggagttatg taaggggaat tacaagtgtg agaaaactcc tagaaaacaa 600  
gatgagtctt gtgaccttag tttctttaaa aacacaaaat tcttggaatg tgttttcatg 660  
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tagccttgta tatgtaaagt ttttaaccaa cctgccttta cagtaactat ataattttat 1440  
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gttgcaagtt aagtagtgag atgacagcga gatggagtga tgagaatttg tagaaatgaa 1980  
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<220>  
<223> Description of Artificial Sequence: Synthetic DNA

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<220>  
<223> Description of Artificial Sequence: Synthetic DNA

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 <223> Description of Artificial Sequence: Synthetic DNA

<400> 17  
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<210> 18  
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 <212> DNA  
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 gtc ata atg tcc aga gga caa att gtt ctc tcc cag tct cca gca atc 96  
 Val Ile Met Ser Arg Gly Gln Ile Val Leu Ser Gln Ser Pro Ala Ile  
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 ctg tct gca tct cca ggg gag aag gtc aca atg act tgc agg gcc agc 144  
 Leu Ser Ala Ser Pro Gly Glu Lys Val Thr Met Thr Cys Arg Ala Ser  
 35 40 45  
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 Ser Ser Val Ser Tyr Ile His Trp Phe Gln Gln Lys Pro Gly Ser Ser  
 50 55 60  
 ccc aaa ccc tgg att tat gcc aca tcc aac ctg gct tct gga gtc cct 240  
 Pro Lys Pro Trp Ile Tyr Ala Thr Ser Asn Leu Ala Ser Gly Val Pro  
 65 70 75 80  
 gtt cgc ttc agt ggc agt ggg tct ggg act tct tac tct ctc acc atc 288  
 Val Arg Phe Ser Gly Ser Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile  
 85 90 95  
 agc aga gtg gag gct gaa gat gct gcc act tat tac tgc cag cag tgg 336  
 Ser Arg Val Glu Ala Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Trp  
 100 105 110  
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 Thr Ser Asn Pro Pro Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys  
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 <212> DNA  
 <213> Mus musculus

<400> 19  
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 1 5 10 15  
 gtc ctg tcc cag gta caa ctg cag cag cct ggg gct gag ctg gtg aag 96  
 Val Leu Ser Gln Val Gln Leu Gln Gln Pro Gly Ala Glu Leu Val Lys

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| Pro Gly Ala Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe |     |     |     |     |
|   | 35  | 40  | 45  |     |
| acc agt tac aat atg cac tgg gta aaa cag aca cct ggt cgg ggc ctg |     |     |     | 192 |
| Thr Ser Tyr Asn Met His Trp Val Lys Gln Thr Pro Gly Arg Gly Leu |     |     |     |     |
|   | 50  | 55  | 60  |     |
| gaa tgg att gga gct att tat ccc gga aat ggt gat act tcc tac aat |     |     |     | 240 |
| Glu Trp Ile Gly Ala Ile Tyr Pro Gly Asn Gly Asp Thr Ser Tyr Asn |     |     |     |     |
|   | 65  | 70  | 75  | 80  |
| cag aag ttc aaa ggc aag gcc aca ttg act gca gac aaa tcc tcc agc |     |     |     | 288 |
| Gln Lys Phe Lys Gly Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser |     |     |     |     |
|   | 85  | 90  | 95  |     |
| aca gcc tac atg cag ctc agc agc ctg aca tct gag gac tct gcg gtc |     |     |     | 336 |
| Thr Ala Tyr Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val |     |     |     |     |
|   | 100 | 105 | 110 |     |
| tat tac tgt gca aga tcg act tac tac ggc ggt gac tgg tac ttc aat |     |     |     | 384 |
| Tyr Tyr Cys Ala Arg Ser Thr Tyr Tyr Gly Gly Asp Trp Tyr Phe Asn |     |     |     |     |
|   | 115 | 120 | 125 |     |
| gtc tgg ggc gca ggg acc acg gtc acc gtc tct gca                 |     |     |     | 420 |
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<220>  
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<210> 21  
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<210> 22  
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<210> 23  
<211> 89  
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<220>  
<223> Description of Artificial Sequence: Synthetic DNA

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<210> 24  
<211> 91  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: Synthetic DNA

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<210> 25  
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<212> DNA  
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<223> Description of Artificial Sequence: Synthetic DNA

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<223> Description of Artificial Sequence: Synthetic DNA

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<223> Description of Artificial Sequence: Synthetic DNA

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<223> Description of Artificial Sequence: Synthetic DNA

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<211> 98

<212> DNA  
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<223> Description of Artificial Sequence: Synthetic DNA

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<210> 32  
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<223> Description of Artificial Sequence: Synthetic DNA

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